

## Conics Application Supplement Key

1. 11.31 ft
2. 4.167 ft (or 25/6)
3. 1/36 or .028 inches from bottom
4. 10 ft: 24.3 ft  
30 ft: 18.75 ft  
50 ft: 7.64 ft
5. 27.78 ft
6.  $x = 0, 2$  ft  
 $x = 5, 2.58$  ft  
 $x = 10, 4.55$  ft  
 $x = 15, 12$  ft
7. 86.6 ft wide  
51.96 ft wide 10 ft from end
8. perihelion = 91.5 million miles  
$$\frac{x^2}{93^2} + \frac{y^2}{92.988^2} = 1$$